IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

1   LISTING OF CLAIMS

2   We claim:

3   1. (original) An environment aware message delivery system, comprising:

4   a portable message redirection agent carried by a user; and

5   a message delivery service manager for managing candidate message terminals to provide

6   message delivery services for the user, wherein when the user moving over to a place, said

7   message redirection agent cooperates with said message delivery service manager located in the

8   environment around the user to select a message terminal from candidate message terminals in

9   the environment as a target message terminal, and request a message redirection entity to redirect

10   the message addressed to the user to the target message terminal.

11   2. (original) A system according to claim 1, wherein said message redirection agent cooperates

12   with said message delivery service manager in the environment around the user by means of a

13   short range wireless communication network.

14   3. (original) A system according to claim 2, wherein said short range wireless communication·

15   network is Bluetooth wireless communication network.

16   4. (original) A system according to claim 1, wherein said message redirection agent cooperates

17   with said message delivery service manager in the environment around the user by·means of a

18   USB interface.

19   5. (original) A system according to claim 1, wherein said message redirection agent runs in

20   portable pervasive computing devices such as cell phone or PDA. ·

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1   6. (original) A system according to claim 1, wherein said message redirection agent runs in Blue

2   badges.

3   7. (original) A system according to claim 1, wherein said message redirection entity is PBX.

4   8. (previously presented) An environment aware message delivery system, comprising:

5   a portable message redirection agent carried by a user; and

6   a message delivery service manager for managing candidate message terminals to provide

7   message delivery services for the user, wherein when the user moving over to a place, said

8   message redirection agent cooperates with said message delivery service manager located in the

9   environment around the user to select a message terminal from candidate message terminals in

10   the environment as a target message terminal, and request a message redirection entity to redirect

11   the message addressed to the user to the target message terminal, wherein said message

12   redirection agent comprises:

13   a message redirection service discoverer for sending service requests to said message delivery

14   service manager, and receiving service information from said message delivery service manager;

15   a message redirection manager for maintaining a message redirection service list, configuring

16   message redirection policy and selecting the target message terminal; and

17   a message redirection requester for requesting message redirection service from the message

18   redirection entity; and

19   wherein said message delivery service manager comprises:

20   a service request handler for authenticating the message redirection agent and sending service

21   information on-demand to the message redirection agent;

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1   a service availability detector for checking the status of the candidate message terminals in the

2   environment and updating the message delivery service list according to the checking result; and

3   a message delivery service configurator for configuring the available message delivery services,

4   such as authorizing who can access these services.

5   9. (canceled)

6   10. (previously presented) A system according to claim 8, wherein said message delivery service

7   manager further comprises a service advertiser for periodically sending service information to

8   nearby message redirection agents.

9   11. (original) A system according of claim 1, wherein said message redirection agent comprises

10   a message redirection service discoverer for sending service requests to said message delivery

11   service manager.

12   12. (previously presented) A system according to claim 8, wherein said message redirection agent

13   comprises a message redirection service discoverer for sending service requests to said message

14   delivery service manager, and wherein said message delivery service manager comprises:

15   a service request handler for authenticating the message redirection agent;

16   a service availability detector for checking the status of the candidate message terminals in the

17   environment and updating the message delivery service list according to the checking result;

18   a message delivery service configurator for configuring the available message delivery services,

19   such as authorizing who can access these services, and selecting the target message terminal on

20   behalf of the message redirection agent making the service requests; and

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1   a message redirection requester for requesting message redirection service from the message

2   redirection entity.

3   13. (currently amended) ~~A~~ An environment aware message delivery system ~~according to claim 1,~~

4   comprising:

5   a portable message redirection agent carried by a user; and .

6   a message delivery service manager for managing candidate message terminals to provide

7   message delivery services for the user, wherein when the user moving over to a place, said

8   message redirection agent cooperates with said message delivery service manager located in the

9   environment around the user to select a message terminal from candidate message terminals in

10   the environment as a target message terminal, and request a message redirection entity to redirect

11   the message addressed to the user to the target message terminal.

12   wherein said message redirection agent comprises:

13   a message redirection service discoverer for sending service requests to said message delivery

14   service manager, and receiving service information from said message delivery service manager;

15   and

16   a message redirection manager for maintaining message redirection service list, configuring the

17   message redirection policy and selecting the target message terminal.

18   14. (original) A system according to claim 13, wherein said message delivery service manager

19   comprises:

20   a service request handler for authenticating the message redirection agent and sending service

21   information on-demand to the message redirection agent;

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1   a service availability detector for checking the status of the candidate message terminals in the

2   environment and updating the message delivery service list according to the checking result;

3   a message delivery service configurator for configuring the available message delivery services,

4   such as authorizing who can access these services; and

5   a message redirection requester for requesting message redirection service from the message

6   redirection entity according to the request of the message redirection agent.

7   15. (currently amended) A system according to claim 13 claim 1, wherein said system comprises

8   a plurality of message delivery service managers, running in various message terminals

9   respectively.

10   16. (original) A system according to claim 15, wherein said message redirection agent comprises:

11   a message redirection service discoverer for sending service requests to said message delivery

12   service manager, and receiving service information from said message delivery service manager;

13   a message redirection manager for maintaining message redirection service list, configuring the

14   message redirection policy and selecting the target message terminal; and

15   a message redirection requester for requesting message redirection service from the message

16   redirection entity.

17   17. (original) A system according to claim 16, wherein said message delivery service manager

18   comprises a service request handler for authenticating the message redirection agent and sending

19   service information on-demand to the message redirection agent.

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1   18. (original) A system according to claim 17, wherein said message delivery service manager

2   further comprises a service advertiser for periodically sending message redirection service

3   information to nearby message redirection agents.

4   19. (original) A system according to claim 15, wherein said message redirection agent comprises:

5   a message redirection service discoverer for sending service requests to said message delivery

6   service manager, and receiving service information from said message delivery service manager;

7   and

8   a message redirection manager for maintaining message redirection service list, configuring the

9   message redirection policy and selecting the target message terminal.

10   20. (previously presented) A system according to claim 8, wherein said system comprises a

11   plurality of message delivery service managers, running in various message terminals

12   respectively, and wherein a message delivery service manager comprises:

13   a service request handler for authenticating the message redirection agent and sending service

14   information on-demand to the message redirection agent; and

15   a message redirection requester for requesting message redirection service from the message

16   redirection entity according to the request of the message redirection agent.

17   21. (original) An environment aware messages delivery method, comprising the steps of:

18   making information interaction with a message delivery service manager in the environment

19   around a user by a portable message redirection agent carried by the user, wherein interacted

20   information comprises information on candidate message terminals;

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1   selecting a message terminal from the candidate message terminals in the environment as a target

2   message terminal; and

3   requesting a message redirection entity to redirect a message addressed to the user to the target

4   message terminal.

5   22. (original) A portable message redirection agent, characterized by:

6   when a user mover over to a place, said portable message redirection agent being carried by the

7   user cooperating with a message delivery service manager in the environment around the user,

8   selects a message terminal from candidate message terminals in an environment of the user, as a

9   target message terminal and requests a message redirection entity to redirect a message addressed

10   to the user to the target message terminal.

11   23. (currently amended) A message delivery service manager, comprising:

12   cooperating means functioning such that when a user moves over to a place and said message

13   delivery service manager is in an environment around the user, cooperates with a portable

14   message redirection agent carried by the user, selects a message terminal from candidate message

15   terminals in the environment as a target message terminal, and requests a message redirection

16   entity to redirect the message addressed to the user to the target message terminal.

17   24. (previously presented) An environment aware messages delivery method according to claim

18   21, further comprising the step of: providing an article of manufacture comprising a computer

19   usable medium having computer readable program code means embodied therein for causing

20   environment aware messages delivery, the computer readable program code means in said article

21   of manufacture comprising computer readable program code means for causing a computer to

22   effect the steps of making, selecting, and requesting.

23   25. (previously presented) An environment aware messages delivery method according to claim

24   21, further comprising the step of: providing a program storage device readable by machine,

25   tangibly embodying a program of instructions executable by the machine to perform method

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1   steps for environment aware messages delivery, said method steps comprising the steps of

2   making, selecting, and requesting.

3   26. (previously presented) A computer program product comprising a computer usable medium

4   having computer readable program code means embodied therein for causing environment aware

5   messages delivery, the computer readable program code means in said computer program product

6   comprising computer readable program code means for causing a computer to effect the

7   functions of:

8   a portable message redirection agent carried by a user; and

9   a message delivery service manager for managing candidate message terminals to provide

10   message delivery services for the user, wherein when the user moving over to a place, said

11   message redirection agent cooperates with said message delivery service manager located in the

12   environment around the user to select a message terminal from candidate message terminals in

13   the environment as a target message terminal, and request a message redirection entity to redirect

14   the message addressed to the user to the target message terminal.

15   27. (previously presented) A message delivery service manager according to claim 23, further

16   comprising computer program product means comprising a computer usable medium having

17   computer readable program code means embodied therein for causing message delivery service

18   management, the computer readable program code means in said computer program product

19   comprising computer readable program code means for causing a computer to effect the

20   functions of the cooperating means.

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